

SAHIL MITTAL

Mob No.-9717911353

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Professional Summary

Design Engineer having bachelor in Mechanical and Automation Engineering with 3+ years of experience in structure design, performing hand calculation for defining load cases, reaction forces and stress calculation for drawing Shear Force and Bending Moment diagram is seeking a challenging role in a company where his skills and knowledge can be used for the betterment of company and his personal growth

Key Competencies

- Structure Design
- Customer Care
- DFMEA
- Defining Load Cases
- Hand Calculations
- Proto Design and Development
- Proto ORC closure
- Vehicle Integration
- Benchmarking
- Sheet Metal
- Casting
- Failure Modes
- Engine packaging
- PLM Teamcenter
- GD&T and Tolerance Stack up
- BOM Preparation
- Design Calculations
- Material Selection
- Detail Design
- Cost Reduction Program
- CAD Modeling and Drawing

Key Skills

- Expertise in creating innovative 3D models which can satisfy manufacturing, reliability & cost requirements.
- Good understanding of GD&T (ASMEY 14.5) and tolerance stack up.
- Communicating technical specification of 2D drawing to purchase as well as vendor for product feasibility & manufacturability.
- Good understanding of DMU, DFA, DFMA & DFMEA principles for new product development.
- Working on product life cycle management tool (Team Center) for drawing release.
- Having experience in QFD and benchmarking of competitor products on ergonomics factor.
- Experience of preparing product specification and BOM change.
- Have experience in performing hand calculation for defining load cases and design validation using calculation of reaction forces for SFD and BMD diagram,
- Good understanding for defining FOS and stress calculation and their implementation for material selection and structure design.
- Responsible for closure of proto and line ORC after coordinating with cross functional teams
- Communicate product specification and features to supplier for product development
- Having a complete working knowledge of design & development of new product from pre-scope activities to product launch.
- Participated in with market research team for finalization of vehicle requirements
- Ability to work on multiple projects along with supporting other teams to complete the standardized target

Professional Experience : 3 Years 1 Month

Experience in Years

Assistant Manager, International Tractor Limited

(May2020 To Till Present)

Key Responsibilities

- Developing best design standards and best design practices.
- Designing of models and drawings and their approval for projects.
- Designing and validation of periphery components for engine
- Designing and validation of components for packaging of 8+2, 10+5, 12+12 transmissions
- Linkage mechanism design which can satisfy technical standards

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Achievements

- Designed and validated periphery components such as foot board mounting, fender clutch pedal mechanism for the packaging of Common Rail Direct Injection Engine which can satisfy the environment norms and customer requirements.
- Packaging of multispeed transmission(12+12) with new components with little or no change
- Designed linkages for new mechanism of shuttle lever which can satisfy the technical requirement
- Designed new electrical throttle by using single electrical unit for both hand throttle and foot throttle
- Designed seat mounting bracket for vehicle in accordance with aesthetic, ergonomic and NVH requirement

Senior Engineer, International Tractors Limited

(May2019-April2020)

Key Responsibilities

- Designing of new feature by using basic principles of sheet metal for a particular models and coordinating with CAE team for their virtual validation
- Designing of components by using principles for designing of fabricated components.
- Validation of aesthetic features for various models

Achievements

- Designed and validation of casting brackets for mounting of front axle with optimum cost
- Designed and validated cost effective Roll Over Protection Structure which can satisfy the technical requirements by co-ordinating with CAE team
- Designed new battery box and control valve cover with basic principles of sheet metal design
- Designed and validated fuel tank frame which can satisfy the cost, customer and technical requirement.
- Designed new front heavy weight bumper according to market and ergonomic requirement
- Designed and validated acrylic heat guard by coordinating with CFD and purchase team which can satisfy market requirements.

Graduate Engineer Trainee, International Tractor Limited

(May2018-April2019)

Key Responsibilities

- Drafting of various components such as mounting bracket, fuel tank frame , bonnet, lever etc. by basic principles of GD & T
- Creating 3D models of components on unigraphics by the constraints defined by preexisting periphery components
- Assisting assembly team in analysing and resolving vehicle problem with corrective actions
- Exporting JPEG, STEP and Para solid file for catalogue and theme preparation.
- Assisting the marketing team for advertisement creation by providing appropriate data.

Academic Credentials

Degree	Specialization	Institute	University/ Board	%age/ CGPA	Year
B.Tech	Mechanical and Automation	Northern India Engineering College	Guru Gobind Singh Indraprasth University	81.75	2017
12 th	Non-Medical	Mother Divine Public School	Central Board of Secondary Education	90	2013
10 th	General Topics	Mother Divine Public School	Central Board of Secondary Education	9	2011

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Training or Certification

- **Certification:-** 1) Participated in International Go Kart Championship held at LPU by LPU SAEINDIA COLLEGIATE CLUB under aegis of Division of Student Affairs, LPU & in collaboration with Republic Motors
2) Glider making workshop held at DTU
- **Training: -** 1) Done Summer Training in Mahindra Motors(Sri Durga Automobiles)
2) Practical Industrial Training in Northern Railways (Diesel Shed Shakurbasti)

Personal Trait/ Other Interest

- Laborious
- Hardworking
- Team Player
- Focused
- Target Orientated
- Listening to music
- Exploring adventurous places with friends

Personal Details

- Preferred Locations: :PAN India
- Languages Known: :English and Hindi
- Passport Validity: :NA
- LinkedIn Profile : <https://www.linkedin.com/in/sahil-mittal-881b4813a>
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